

Claims

1. A biomass gasification system comprising;

a gasification furnace which generates a fuel gas from biomass;

a reforming device which attains a process temperature at which the tar component within the fuel gas is thermally cracked, said reforming device being connected to a supply system which feeds fuel gas from said gasification furnace to a utilization system; and

a fuel gas induction system able to feed the fuel gas from said reforming device to said gasification furnace for use as fuel to power the operation of said gasification furnace during the time when said reforming device has not yet attained a process temperature.

2. A biomass gasification system according to claim 1, wherein combustion turning

control means is provided to select a fossil fuel or fuel gas as the fuel to be combusted to drive the gasification furnace.

3. A biomass gasification system operating method comprising;

a step that fuel gas is directed from a reforming device, within which the temperature of the fuel gas is increased to a point at which the tar component within the fuel gas generated from biomass in a gasification furnace is thermally cracked, to said gasification furnace for use as fuel to be combusted by said gasification furnace during the time when the temperature of said reforming device is below a process temperature.

4. A biomass gasification system operating method according to claim 3, wherein initial operation of said gasification furnace is driven by the combustion of fossil fuel after which said gasification furnace operation is powered by the combustion of fuel gas supplied from said reforming device during the time when the temperature of said reforming device is below the process temperature.